COMPANY PROFILE & PRODUCT CATALOGUE
“CLEAN SWEET AIR ON THE FACE & SUPPORT IN ALL FORMS”
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Vision
To become the market leader in Africa for the design, fabrication, supply and project / contract management of total integrated mining and industrial related ventilation systems, underground support and ancillary equipment through strategic co-operation with proven market leaders of sub-systems.

Mission
To supply quality products and services that exceed the expectations of our customers in a time period and at a price that is beneficial to all stakeholders without any negative environmental consequences.

Company Description & Background
Unique Ventilation and Support Systems (Pty) Ltd was formed through the merger of the following companies:

Unique Clamps Engineering & Ventilation (UCEV)
– Hennenman, Free State

Ventilation & Support Africa (VSA)
– Rustenburg, North West

BroKrew Industrial (Pty) Ltd
– Krugersdorp, Rustenburg, Steelpoort

The merger resulted in the establishment of the largest ventilation manufacturing company in Africa, with more than 85 years of experience in the mining ventilation industry.

UVSS also has extensive experience in the manufacture of underground support, PVC ducting and various other engineering products that serve the mining, engineering and construction sectors.

The business is well placed to serve its expanding client base, through its network of experienced, expert personnel, continuous innovation and improvement, and reliable source of raw materials by virtue of its association as a jointly held subsidiary of Macsteel Services Centres SA (Pty) Ltd.

Our vast client base both locally in South Africa as well as in Africa, including companies such as Anglo American, Goldfields (Sibanye Gold), Impala and Lonmin Platinum, many of whom have contracts in place with UVSS due to the reputation and reliability we have established as trusted suppliers in the industry.

UVSS maintains its high quality, professional standards as evidenced by its ISO 9001:2008 certification, Health and Safety policies and proud BBBEE status which includes significant Black Ownership and Enterprise Development initiatives.

Facilities
Gauteng
1 Resnick Street
Factoria
Krugersdorp

Freestate
Skoolplaats Factory
Hennenman
Standard Galvanised Mine Ventilation Ducting

Ventilation Columns, Ducting and Pipes

- Manufactured from 1.0 mm; 1.2 mm and 1.6 mm Z275 galvanised steel.
- Diameters: 305 Ø; 380 Ø; 405 Ø; 570 Ø; 760 Ø; 915 Ø; 1015 Ø; 1220 Ø & 1500 Ø.
- Ducting lengths manufactured to customer specifications and requirements.
- All flanges manufactured from rolled angle iron.

Enerduct is a new concept of duct design and manufacturing. CFD Simulation and Analysis of Air Flow on the newly spiral-swage formed ventilation duct were conducted by the CSIR to determine the flow characteristics in the Enerduct pipe.

Results from the Simulation and Analysis research proved that the design of the spiral swage reduces the frictional pressure drop by between 8.80% and 13.04% at different volumetric flow rates.

Underground Applications:
Ducting can be designed for areas with limited space available where conventional round ducting cannot be installed. Flanges can be supplied with clamp-hooks on top of flange which do not require bolts and nuts due to limited space during installation.

Industrial Applications:
Sub-station ventilation systems and plant ventilation systems.

Standard Sizes:
405 Ø (850 x 200); 570 Ø (1020 x 250); 760 Ø (1300 x 350); 915 Ø (1650 x 400);
1015 Ø (1620 x 500); 1220 Ø (1950 x 600).

Alternative sizes can be manufactured on request and as per client specification.
PRODUCTS

Standard Galvanised Mine Ventilation Ducting

Bends  Inspection Doors  Silencers
Blank Off Plates  Laterals  T-pieces
Grid Protection Pieces  Low Pressure Self-Closing Doors  Venturis
Dampers / Regulators  Reducers  Water Blast / Brosprays
Wedges  Y-pieces  Compressed Air Silencers
PRODUCTS

Flexible Ducting and Curtains

PVC Ducting

Accessories

Exhaust Ducting

Fittings / Fan Adaptors

Force Ducting

Ventilation Curtains & Accessories

Polypropylene Curtains

PVC Strip Curtains

Duct Wrap

Specification:
- SABS 1287 – NCB 245
- Density: 75-100gsm
PRODUCTS

Special Ventilation Systems – Underground & Industrial

Dust Plants and Air Filtration Units
Shaft Ventilation Pipes
Underground Ventilation Doors
Emergency Refuge Bays
Special Round, Rectangular, Bends and Sections
Water Eliminators
Furnace Extraction Systems, Fan Casings, Dampers, Silencers and Screens
Supports, Walkways, Stairways and Supportive Structural Beam Work / Light Structures
Refuge Bay Door
Mining Fans
Surface Fan Drifts, Self Closing Doors (High, Low Pressure or Counterweight), Radial Vane Control Units, Dampers
Rotating Man Door
Sound Attenuators
Tanks, Scrubber Systems, Hoppers, Chutes and Cyclones
Supports, Walkways, Stairways and Supportive Structural Beam Work / Light Structures
PRODUCTS

Underground Support

Meshing & Lacing Clamps
- U-BOLT Lacing Clamps (Standard) – For use with 8-16mm Ø Steel Wire Rope.
- U-BOLT Lacing Clamps (Large) – For use with 16-20mm Ø Steel Wire Rope.
- HEWITT MK I – For use with 8-13mm Ø Steel Wire Rope.
- HEWITT MK II & III – For use with 12-16mm Ø Steel Wire Rope.

Lacing Clamps

- Diameter: Y40; Y32; Y25; Y20 mm Ø x any length, as required.
- Material: 450MPA Tensile.

Foundation Bolts

- Diameter: Y20; Y14.5; Y16; Y12; Y10 mm Ø x any length, as required.
- Material: 450MPA Tensile.

L Bars

- Diameter: M16 and M20.
- Inside diameter of eye: (64mm).

Pig Tail Eyebolts

- Aluminium Pipe 34.92mm outside diameter and 25.52mm inside diameter
- Hexagon bar quality 080A42, 22.4mm Ø

Sizes
- 1.0m - 3.0m
- Forged ends to specification
Underground Support Continued

Roof Bolts

- **Standard**
  - Material: Y12; Y14.5; Y16; T16 – 450 MPA TENSILE
  - Length: From 1.2m to 3.2m
  - Overlap: From 300mm to 600mm

- **Welded**
  - Material: Y14; Y16; T16
  - Length: From 1.2m to 3.2m
  - Overlap: 50mm Welded

Shepherd Crooks

Split Sets

Winch Brackets

Normal & Heavy Duty

Length

- From 0.6m to 3.0m increments of 0.3m
Krugersdorp Branch (Head Office)
1 Resnick Street, Factoria, Krugersdorp, 1739
PO Box 1601, Krugersdorp, 1740

Tel: +27 (0) 11 668 6300
Fax: +27 (0) 86 670 0456
Email: info.uvss@uvss.co.za

Sales Office
Tel: +27 (0) 11 668 6315
Email: sales.uvss@uvss.co.za

Free State Branch (Hennenman)
Tel: +27 (0) 57 573 1162
Fax: +27 (0) 57 573 1162

Website
www.uvss.co.za